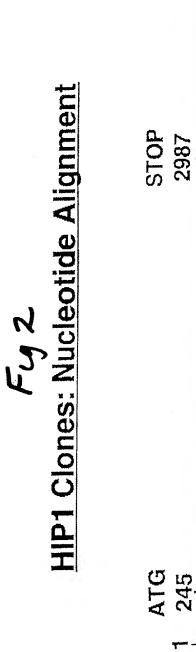
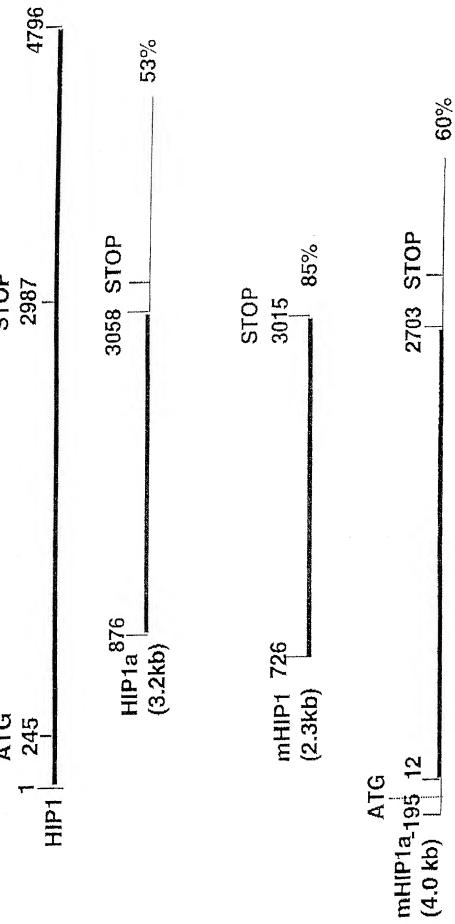
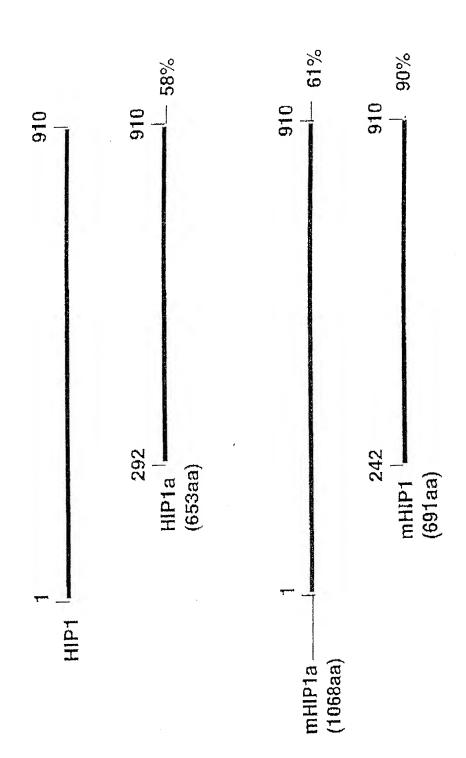


7.2.





Fy 3 HIP1 Clones: Protein Alignment



Fy 4

>Usurpin A

SAEVIHOVEEALDTDEKKMLLFLCRDVAIDVVPPNVROLLDILRERGKLSVCDLAELLYRVHRFDLLKRILK

>Usurpin B

YRVLMAHIGEDLDKSDVSSLIFLMKDYMGRGKISKHKSFLDLVVELHKLNLVAPDQLDLLEKCLKNIHRIDLKTKIQK

>Casp-8 A

FSRNLYDIGELQDSEDLASLKELSLDYIPQRKOEPIKDALMIFQRLOEKRMLEESNLSFLKELLFRINRLDLLITYLN

>Casp-8 B

YRVMLYQISEEVSREELRSFKFLLQHEISKCKLDDDMNLLDIFIEMEKRVILGEGKLDILKRVCAQINKSLLKIND

>Casp-10 A

FRHKLLTIDSNLGVQDVENLKFLCIGLVPNKKLEKSSSASDVFENLLAHDLLSEEDPFFLAELLYIIRQKKLLQHLNC

>Casp-10 B

FRNLLYELSEGIDSENLKDMIFLLKDSLPKTEMTSLSFLAFLEKQGKIDEDNLTCLEDLCKTVVPKLLRNIEK

>FADD

FLVLLHSVSSSLSSELTELKFLCLGRVGKRKLERVQSGLDLFSMLLEQNDLEPGHTELLRELLASLRRHDLLRRVDD

>MC159 A

SLPFLRHLLEELDSHEDSLLLFLGHDAAPGCTTVTQALCSLSQQRKLTLAALVEMLYVLQRMDLLKSRFG

>MC159 B

YHKLMYCYGEELDSSELRALRLFACNLNPSLSTALSESSRPYELVLALENYGLYSPSSYSYLADMLRTLRRLDLCQQLYE

>E8

FRCLMALVNDFLSDKEVEEHYFLCAPRLESHLEPGSKKSFLRLASLLEDLELLGGDKLTFLRHLLTTIGRADLVKNLQV

>KS orfkl3A

TYEVLCEVARKLGTDDREVVLFLLNVFLPQPTLAQLIGALRALKEEGRLTFPLLAECLPRAGRRDLLRDLLR

>KS orfkl3B

YQLTVLHVDGELCARDIRSLIFLSKDTIGSRSTPQTFLHNVYCMENLDLLGPTDVDALMSMLRSLSRVDLQRQVQT

>HIP1

SELEADLAEQQHLRQQAADDCEFLRAELDELRRQREDTEKAQRSLSEIERKAQANEQRYSKLKEKYSELVQNHADLLRKN AE

>HIPla

GELEEQRKQKQKALVDNEQLRHELAQLRAAQLERERSQGLREEAERKASATEARYNKLKEKHSELVHVHAELLRKNAD

>mHIPla

NGLEAELEEQRKQKQKALVDNEQLRHELAQLKALQLEGARNQGLREEAERKASATEARYSKLKEKHSELINTHAELLRKN AD

>mHIP1

SELEAELAEQQHLGRQAMDDCEFLRTELDELKRQREDTEKAQRSLTEIERKAQANEQRYSKLKEKYSELVQNHADLLRKN AE

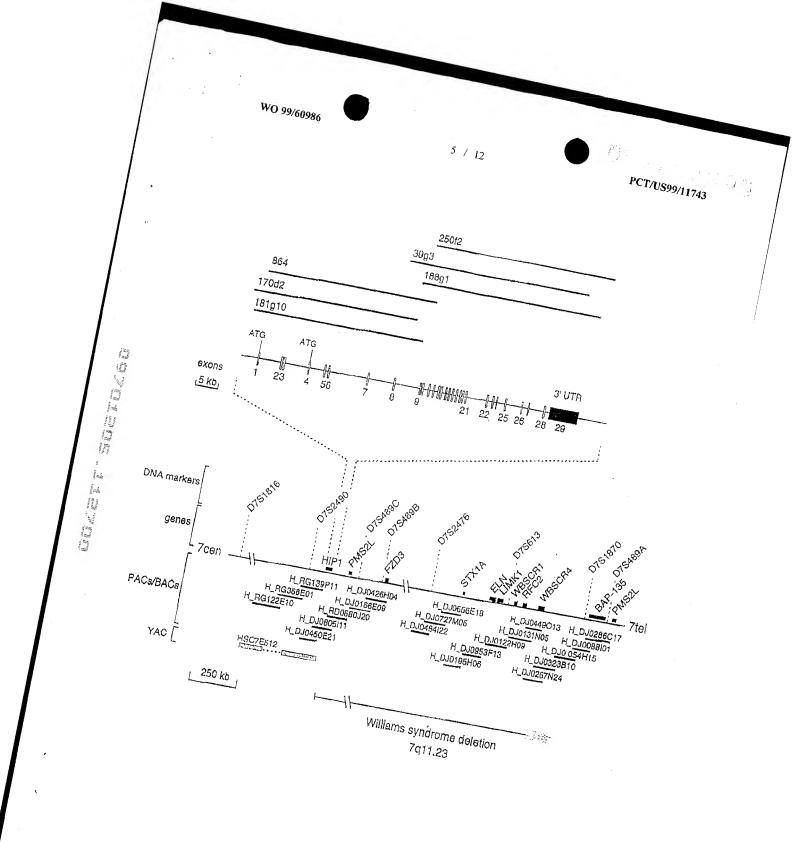


Fig 5

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90	180	269	355	44 E 2 44 O	530	617	702 569	792	882 731
AGGERGGLÆEGLSH SQRLIHLILLSLPLL	. HKLLRDGEP V RY N S VFEKLLEDGEPNVLK DSLRYRNELSDMSRN LVHKLLRDGERKVPE RTYRVVRRFTQLSQP	M L V. R S. EMFDYLECELNLFQT VFRSEDGSRSVSVTA DYLLOGYDALUVLQDR VYERDGWSLRHYSLIP	SSNLQTFK L. IL LP PNFL S FYRSSNLQTFKELIQ IPQLPENPPHFLRAS YBESSNLQTFKYLVS IPTLFSHAPNPLQQS	D I L K E NSQNGVNKDENDHLI ERLYRBISGLKAQLE SSQPDPREEQI VALSRAVEDEKFAKE	A . E ERKA A B R K K Y AQRSLSEIBRKAQAN BQ-RYSKLKBKTSE- ARVKEAELKATAA EB-RTNKARGVTEE-	s lbsikqbiatsqrei qviqsietsaqsea bagraltka egdagavdzmriqiv	e g a p vgsrkareqviqdal nqleepplis Tqmfdhcedalqnat sitypp	A CIRAPPEPADSLTBA CROYGRETLAYIASL AYTASIESYEGUADO CROYLAAARVAF	IB RA G LEYNE IL RIBBMLSKSRAGDTG VKLEYNERILGCCTS BIBAIÖRRARSSSKG IRLEVRESILANCQA
GRLQGTDHPWGWGRL	L VL WEPCH LPLSSNAVLCWKFCH IQLRKHPVLTWKFCH	E D. N P I EAGESDVNNFPQLIV TL-EGDLDNAFENTI	er rf ? k erdrfyggttelkol ersrfeti?ertef	ODIFGSSPSSDPFNF LNLÆRÆREPQOæSP	B R T ARLDELRROREDTEK NELALREASRTOTEE	QR ISDQGQRKTQEQLEV KVERAQR	AK ESMCQLAKDQRAMLL LAELEVAKES-GVGI	HL S A LABLESDAIMBGAIT AGHLLSTILSAAASA	DI KRIDIKQPELGIDIYD KRMAATSAAIBTATA LQTDIOKOVGHELE QKMRRADDAIRRAVQ
QPAGSWERCPPLPPA	E KK FW V HHEKGAQTFHSVVNR HÆEKSSGIFHHTVGR	PRFPGNIQMSDRQLD	ES . ESQVP	D H D SPDSEPVLEKODU MOMDASÇQNIFDNKE EGTSLINGHUGEL		D W DLERBKKELEDSLER G DRDESITALNR	Q AL RKELQDTQLKLASTE IQLVQSSAEETNKIR	A ACPEDISGLLHS ATKONV	
GTANARQNOPLPQDA	K KHART I.GT VAVKEKHARTCILGT VPLKFKHARTIIVGT	H HL GYG Y KLL .H K WGHLS-EGYGQLCSI YLKLLHTKMBYHTKN WKHLNTSGYGPCIES YCKLLHDRVTFHRYY	GQC PLI .ILD S YDT VK .FKL AGQCRLAPLIQVILD CSHLYDYTVKLLPKL QGQCWLSPLIIAILD TSKFYDYLVKMIFKL	S ASSPOSEPVLEXOD	B PMKTESQRVVIQ LKGHVSELEADLAEQ RLIQEARSRIEQ YBNRLLQMQGEFDHA	H KQ. LVQNBADLLRKN ARVIKQVSKARQAQV PRSBEVLALFKL GDIQKQUEASZKSK?	H B INSGAAHRBEBLSAL 		nclskikaig <u>ee</u> Rodiqtinslais
MICQGSENRRDQQL GTANARQMCPLPQDA	Q KAI E VPQTVSINKAINTQE RAQLEAVQKAITYME			L P B S ALSERISPVVVIPAE AS DESYRTPHATHSE GS			K BL D NYAAZ?ABLEKENDS 3 KADIEVEBLKRTID-	CAC 	L D REEGSLENADSTANR 3 SDUSALSRADKHKLL
1 hip1 2 zk370.3	1 hipi 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hip1 2 zk370.3	1 hipl 2 2k370.3	1 bipl 2 zk370.3	1 hip1 2 zk370.3

## FIG CONT.

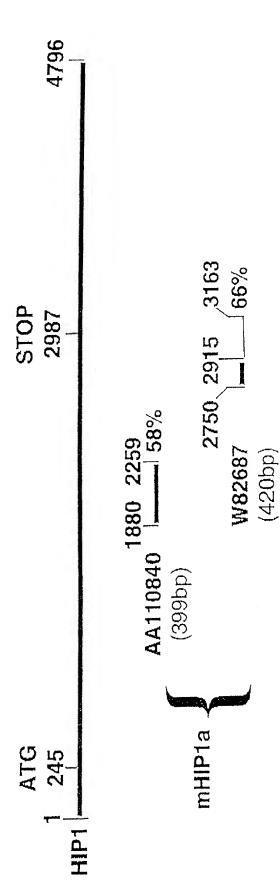
SP KFT N MTSGLIS A KAVG A V AD VV GRGK F R L V BIAASTA	INQALQVILVASKOL QRETVESGRGIASPK BFKAKNSRHTEGLIS ASKAVGHGATVHVDA ADLVVQGRGKF KELHVCSHELAASTA 🥦 95	ZK370.3 IMSVINQIVIASREL QIRIVAAGKAGGEPA BFYKRAHÇMIEGILS AAKAVGVAARVIVES AKGVVIGKGKF KHLIVAAQSIAASTA \$1	D3S L K EM SQV L BLER L ER KL	
DIS A KAVI	LIS ASKAVG	LLS AAKAVG		
KBY N WISGI	RFYAKNSRHT 3G1	BFY KRAHQHT EGI	TA VVA G	
	QRRIVESGRGIASPK	QTRIVAAGKAGGBPA	DEV K 1 I	
EM .I LAS L Q EIV	INCAIQVIIVASKOL (	INSVIMQLVIASREL (	QL. S VKADKDSS L L A VWQ TA VY G	
	1 hipl	2 zk370.3		

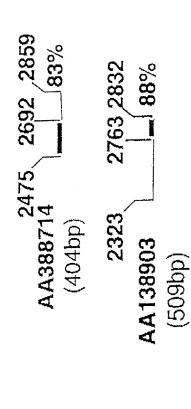
LRK HY A . LRKKHYELAGVAEGW ERSTRASPPTLOEVV TEKE

1 hidt - lrekkhyblagyabgw ebstisa. 2 zkiite, i lrechymaalvank vsf---

Ann was, man rese cen. A ser constant to the series of the 

**Mouse ESTs** F197





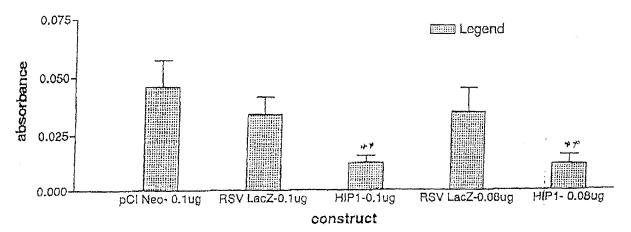
mHIP1

/ 12

mtthlp1.pzm:Graph-2 - Tue Apr 28 11:30:41 1998

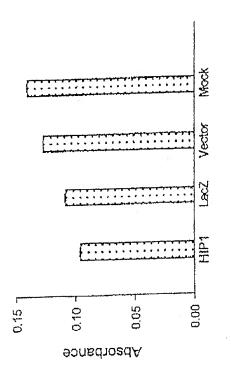
Hip I increase x the susceptibility to cell

## HIP1 TOXICITY



prosence of

HIP1 transfected into HD1955-15 stable cell line 36 hr post-tansfection



Transfected constructs

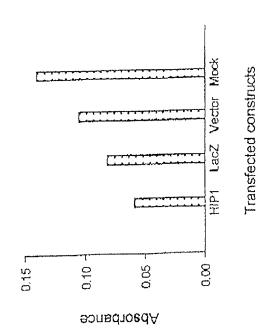
Fy 94

the control of the co

Hig-1 is topic in the presence of h

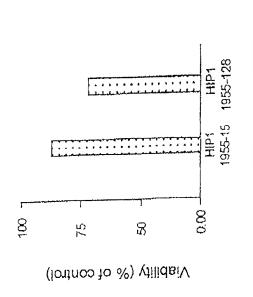
HIP1 transfected into HD1955-128 stable cell line

36 hr post-tansfection



Fy 98

Polyglutamine-dependence of HIP-1 toxicity



Transfected constructs/cell lines

Fy 9C

and the same of the same and the same and the same of the same of